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To
Subject Notes of August 17, 2004 Meeting
subject Area 2 Site, Subject IL

Here is a summary of the August 17, 2004 construction meeting. Please let me know if you have any additions or corrections.

Please also remember that the next call is on Tuesday August 24, 2004. The call in number is 954-797-0718. The Participant Code is 758751.

Attendees:

Sandra Bron – (part time)
Chris English
Clair Morris – by telephone
Bryce Behnke
Steve Smith – by telephone
Glen Kurowski – by telephone
Richard Williams
Richard Ashley

Safety:

- There have been no incidents/injuries in the past 37 working days. Daily safety meetings continue on both the day and night shifts.

Slurry Wall:

- Slurry wall excavation is now at about 83% complete. The entire north/south run of the barrier wall trench has now been excavated to bedrock. All of the excavation equipment is concentrated at the northwestern corner of the wall and proceeding eastward down Riverview Avenue. As of Friday August 13th, the top of the excavation was approximately at Station 33+50, about 250 feet past the northwestern corner.
- The Koehring 1266 backhoe is back on line following earlier repairs. Excavation continues along the northern leg of the slurry wall. We were currently targeting a completion date for completion of the 1266 excavation of September 1st. The repair delay may cause that to slip a week or so. The average depth of the hoe excavation is about 85 ft. to 90 ft. below existing ground surface. We have closed off all of Riverview Avenue to the Solutia property line.
- Both hydraulic clams are working. Both the 843 and 853 clams have passed the northwestern corner and are excavating panels on the north leg. The 855 mechanical

clam is cleaning the trench bottom ahead of the backfill and chiseling rock as required. The Kelly-bar for the 853 crane required minor repair, which was completed in about one day. The average excavation rate last week was equivalent to between 20 and 21 linear feet of trench per day.

- No significant amount of rock has been encountered during this reporting-period; however some chiseling has been required. Slurry loss was encountered on one panel last week, but it was sealed and progress continued. The trench excavation is now past the Ranney well laterals and piled foundation area. These existing underground structures posed no significant obstacles to progress.
- Backfill placement continued in the excavated trench at the northwestern corner of the wall. About 1,800 cubic yards of backfill were placed last week. Total backfill placement is now about 64% complete.
- Quality control tests of the slurry and backfill last week were all within acceptable limits and guidelines.
- The de-sanding unit is working near the northwest corner. Sampling indicates that the sand content of the slurry is about 13% to 16%.
- Inquip has prepared a revised schedule to reflect the impacts of the second shift and the use of an additional hydraulic clam. The revised schedule assumes an average production rate of 25 feet per day, with completion of the excavation by the end of September. Backfill placement is expected to be complete by the third week of October. It was again emphasized that this schedule is based on optimistic assumptions. Because of this, we do not plan to submit a revised schedule. Rather, we propose to give a weekly update on the actual progress and compare it to the approved schedule. Thus, we are currently projecting that the backfill will be completed approximately three weeks ahead of the approved schedule.
- Cleanup of the south end of the work site will begin in the next week or so, as will construction of the slurry wall cap in this area.. A design for a revised cap section under the ConAgra road will be submitted to the Agency as soon as it is complete. This section of the wall is 25 ft. to 30 ft. long and will be subject to heavy truck traffic.

GMCS Pumping System:

- The GMCS pumping system is pumping at about 1400 gpm, in accordance with the look-up table for the “no wall” condition, with the result that control of the groundwater discharge is being maintained. Approximately 2 million gallons of extracted groundwater was discharged to the POTW over the last 24 hours.
- As a follow up to the discussion last week about the adequacy of the extraction system to control the head across the wall using the lookup table, it was pointed out that the

algorithm that will be programmed into the control system when the wall is complete will use a two step procedure to regulate groundwater extraction rates. In the first step, the river stage will be used to adjust pumping rates in accordance with the lookup table for the post wall construction condition. The second step will consist of re-adjusting these flow rates in response to the measured piezometric head differences across the wall. Based on our experience in December and January, it was pointed out that defining the most appropriate algorithm will take time because of the uncertain lag in the aquifer response under differing flow conditions. Defining the algorithm will involve trial and error and it is expected that it may take as much as four to six months to develop a thorough understanding of the system. Agency guidance for remedial actions at CERCLA sites recognizes that remedial systems take some time to start up and shake down and the guidance allows for an extended start up period, prior to the start of the Operations and Maintenance phase of the remedial action.

Other Items:

- The Area 1 DNAPL summary report was issued on August 16th. This report summarizes the bedrock topography information and presents a proposal for the locations of the additional 18 wells to be installed as part of the investigation. The report will be discussed at the site during a meeting on August 24th. Drill rigs are scheduled to start this next phase on September 7th.
- A summary report containing the validated results of the Site G waste analyses was submitted to the Agency last week. Because insufficient sample volume was available to perform all of the scheduled analyses, the Agency requested that the waste materials be resampled. It was pointed out that all of the waste material in evidence at the site was removed during sampling. In fact, because of the limited volume of the yellow crystalline material that was available, a sample of stained soil was obtained in the immediate vicinity of that material. CH2M Hill's oversight representative during the sampling, Clair Morris, agreed with this observation.

It was also noted that the waste materials were only observed at the two locations sampled. The geophysical sampling grid lines were closely spaced (27 feet apart) and it is likely that any significant occurrence of these materials would have been noted. Further, no additional wastes were observed during construction of the temporary covers over the two areas.

Next Meeting:

- The next regular meeting will be on Tuesday, August 24, 2004 at 10:00 am.

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